BRUHAT BANGALORE MAHANAGARA PALIKE

Project:Improvements to Roads and Construction of RCC Culverts and B.S Slab drains at Anthony Layout in Ward No 06 . Byatarayanapura Sub Division

Est Cost: 20.00Lakhs

Sl. N	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
		Cum							
	New BS Slab Drain								
	1st Cross		2	55.00	0.60	0.60	39.60		
	2nd Cross		2	48.00	0.60	0.60	34.56		
	3rd Cross		2	70.00	0.60	0.60	50.40		
	4th Cross		2	75.00	0.60	0.60	54.00		
	5th Cross		2	95.00	0.60	0.60	68.40		
	6th Cross		2	50.00	0.60	0.60	36.00		
	7th Cross		2	75.00	0.60	0.60	54.00		
	8th Cross		2	235.00	0.60	0.60	169.20		
	Culverts		6	6.70	2.00	0.75	60.30		
							566.46	186.92	**105882.70**
	Basic rate	**82**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100**							
	Sub Total	**82**							
	Add Area Weightage 6%	**4.92**							
	Final Rate	**186.92**							
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
		Sqm							
	New BS Slab Drain								
	1st Cross		2	55.00	1.35		148.50		
	2nd Cross		2	48.00	1.35		129.60		
	3rd Cross		2	70.00	1.35		189.00		
	4th Cross		2	75.00	1.35		202.50		
	5th Cross		2	95.00	1.35		256.50		
	6th Cross		2	50.00	1.35		135.00		
	7th Cross		2	75.00	1.35		202.50		
	8th Cross		2	235.00	1.35		634.50		
							1898.10	665.68	**1263527.21**
	Basic rate	**628**							
	Add Area Weightage 6%	**37.68**							
	Final Rate	**665.68**							
4	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Culverts		6	6.70	2.00	0.15	12.06		
							12.06	5348.76	**64506.05**

Sl. N	Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Basic rate	**5046.00**							
	Area Weightage 6%	**302.76**							
	Final Rate	**5348.76**							
9	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)								
		Cum							
	Culverts		12	6.70	0.60	0.60	28.94		
							28.94	4438.22	**128459.84**
	Basic rate	**4187**							
	Area Weightage 6%	**251.220**							
	Final Rate	**4438.22**							
11	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)								
		Sqm							
	Culverts		12	6.70	--	0.60	48.24		
							48.24	102.82	**4960.04**
	Basic rate	**97**							
	Area Weightage 6%	**5.82**							
	Final Rate	**102.82**							
12	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
		Cum							
	Culverts		12	6.70	0.60	0.10	4.82		
							4.82	5767.46	**27822.23**
	Basic rate	**5441**							
	Area Weightage 6%	**326.46**							
	Final Rate	**5767.46**							

Description of Item	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Sqm							
Culverts		6	6.70	1.80	--	72.36		
						72.36	5317.00	**384738.12**
Data Rate =5317								
							Total Construction Cost	**1979896.190**
	Cost towards Design Report , PMC / Third Party inspection LS							**19798.96**
							Miscellaneous and rounding off	**304.85**
							Total	**2000000.00**

Certificate.

The workspot was inspected and Provisions made in the estimate are adequate and necessary.
Work Spot comes under BBMP limits.
The estimate based on PWD CSR for the year 2016-17.
The work is not split up.
These works are not taken up in any other grants and free from Defect Liability Period.
Earlier Improvements taken up in the proposed roads are recorded in earlier road history.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-1771
Div. Ref. No. 58/18-19 Date. 3/09/18

AE 3/09
EE(BTP) 3/9